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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/796,344	03/09/2004	Yuichiro Ohta	2803.70023	1978	
7590 12/16/2005			EXAM	EXAMINER	
Partick G. Burns, Esq.			LUND, JEFFRIE ROBERT		
GREER, BURNS & CRAIN, LTD. Suite 2500 300 South Wacker Dr. Chicago, IL 60606					
			ART UNIT	PAPER NUMBER	
			1763		
			DATE MAILED: 12/16/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
Office Action Summary		10/796,344	OHTA, YUICHIRO
		Examiner	Art Unit
		Jeffrie R. Lund	1763
Period fo	The MAILING DATE of this communication app	pears on the cover sheet with the co	correspondence address
A SH WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS IN THE MAIL	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status			
2a)	Responsive to communication(s) filed on <u>09 M</u> This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final.	
Disposit	ion of Claims		
5)□ 6)⊠ 7)□	Claim(s) 1-7 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-7 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or		
Applicat	ion Papers		
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>09 March 2004</u> is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	a) accepted or b) objected to drawing(s) be held in abeyance. See ion is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority (ınder 35 U.S.C. § 119		
а)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage
	te of References Cited (PTO-892)	4) Interview Summary	
3) 🔯 Infor	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) or No(s)/Mail Date 3/04.	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate Patent Application (PTO-152)

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The claims do not clearly point out and distinctly claim the "mechanism of fixing said flexible pipe". It is not clear what the mechanism is or how it fixes the flexible pipe so as not to shrink at the time of evacuation.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicants disclosed prior art in view of Sweeny US Patent 1,559,804, and Elliotte, US Patent 2,663,894.

The applicant discloses vacuum bonding chambers for bonding liquid crystal display devices that include flexible pipe. (Page 2 lines 20-33)

The disclosed prior art does not teach a mechanism, specifically a bar attached to the vacuum pumps on near the flexible pipe and supporting the bar and reducing the

shrinking by attaching the bar to the floor.

Sweeny and Elliotte both discuss the problem of supporting flexible pipes while they are under a compressive load caused by a vacuum. Sweeny teaches supporting the flexible pipe 24 with sturdy bars 18, 18', 19, 19' (see figures 1 and 1a). Elliotte teaches supporting the flexible hose 59 with sturdy beams 62 and chains 103, 105 (see figure 1). It is also well known in the art that a compressive load can be supported with a chain in tension (see Elliotte).

The motivation for supporting a load induced by a vacuum is to keep all the components in place so that the machine can function as required as taught by Sweeny and Elliotte.

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to support the load imposed on the vacuum pumps of the disclosed prior art by providing a chain attached to a bar as a rigid support means as taught by Elliotte, to enable the apparatus of the disclosed prior art to properly function as taught by Sweeny and Elliotte.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The cited art teaches the technological background of the invention.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrie R. Lund whose telephone number is (571) 272-1437. The examiner can normally be reached on Monday-Thursday (6:30 am-6:00pm).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on (571) 272-1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeffrie R. Lund Primary Examiner Art Unit 1763

JRL 12/12/05